



DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION
12211 SCIENCE DRIVE
ORLANDO, FLORIDA 32826-3224

IN REPLY REFER TO:
J&A 16_0392

**JUSTIFICATION AND APPROVAL
FOR USE OF OTHER THAN FULL AND OPEN COMPETITION**

1. Contracting Activity.

Naval Air Warfare Center Training Systems Division (NAWCTSD) - Orlando, FL

2. Description of the Action Being Approved.

This Justification and Approval (J&A) authorizes and approves the issuance of a sole source Firm Fixed Price (FFP) contract for the Chief of Naval Air Training (CNATRA) T-45 Simulators Windows 10 Upgrade program to:

Aechelon Technology, Inc.
888 Brannan Street Suite 210
San Francisco, CA 94103-4930
(415) 255-0120

3. Description of Supplies/Services.

This CNATRA T-45 Windows 10 Upgrade acquisition is for the procurement of the following:

- Thirteen (13) Aechelon Technology Image Generator (IG) Servers including Integration and Testing
- Two (2) Database Generation System (DBGS) Lite with Training

The CNATRA Simulators Windows 10 Update Program will consist of updating the Windows XP Operating System (OS) in six T-45C (2F138E) Operational Flight Trainers (OFTs) located at Naval Air Station Kingsville, TX and six T-45 Undergraduate Military Flight Officer (UMFO) (2F205A) OFTs located at NAS Pensacola, FL. Additionally, the T-45 UMFO OFT Software Support System (SSS) will be upgraded. Intermediate and advanced strike fighter pilot training tasks are accomplished in the T-45C training devices, while the UMFO devices support intermediate and advanced Naval Flight Officer (NFO) curriculum.

[REDACTED]

[REDACTED]

[REDACTED]

These parts are commercial items and a corresponding Commerciality Determination was approved on 13 June 2016.

The Aechelon pC-Nova products identified to meet the DON CIO mandate are as follows:

- 5 Channel Basic Image Generator
- 20 Terabytes Image Generator Storage
- Digital DVI Single Link 1:2 Splitter
- Digital DVI Dual Link Fiber Optics Extender
- High Resolution 5:1 Video Blender
- Digital DVI Single Link 4x4 Video Matrix
- Database Generation System (DBGS) – Lite with Training

The total estimated value of this J&A procurement is \$ [REDACTED].

Estimated Dollar Value in Thousands

| | FY16 | Total |
|-------|---------------|---------------|
| APN-7 | \$ [REDACTED] | \$ [REDACTED] |
| Total | \$ [REDACTED] | \$ [REDACTED] |

4. Statutory Authority Permitting Other Than Full and Open Competition.

41 U.S.C. 1901 Simplified Acquisition Procedures

FAR 13.501(a)(1)(ii) Simplified Procedures for Certain Commercial Items

5. Rationale Justifying Use of Cited Statutory Authority.

While IG Servers may be available through other sources, a change to a vendor other than Aechelon will require modification to the host and functional IG interface software. This change to a vendor other than Aechelon would significantly increase labor costs, require hiring of additional personnel, require modifications to existing Host and IG Interface Software, and require up to two years for software coding and integration testing. Integration testing would require a dedicated simulator for an anticipated yearlong integration test event, thus impacting CNATRA training schedule and reducing current training capacity. A change from Aechelon will delay the program up to two full years.

The current Aechelon IG Servers within the CNATRA T-45 Simulators utilizes Windows XP. In order to meet the DON CIO mandate to eradicate Windows XP Operating System (OS), new Aechelon Windows 10.version IG Servers will be required.

The Aechelon IG Servers will be delivered to the Government in FY17 with integration and testing to be performed by Aechelon and the In-Service Engineering Office (ISEO) at both NAS Pensacola and NAS Kingsville.

Based on the above, Aechelon is the only source which is currently compatible with the existing CNATRA Simulator Host and IG Interface software.

6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable.

In accordance with FAR 5.201, the Procuring Contracting Officer (PCO) issued a pre-solicitation notice to Federal Business Opportunities (FedBizOpps) via the Navy Electronic Commerce Online (NECO) on 15 June 2015. The intent of the notice was to ensure full consideration is given to all potential sources. No responses were received. No additional market research was conducted because it is not practicable, for the reasons stated in paragraph 5 above, for any source other than Aechelon to provide the required supplies and services.

7. Determination of Fair and Reasonable Cost.

In accordance with FAR 15.402(a), the Contracting Officer shall ensure that the supplies and services provided by this J&A will be fair and reasonable. Price analysis will be performed, in accordance with FAR Part 15.404-1, to determine fair and reasonable prices. Aechelon's proposal will be reviewed by experienced technical analysts and contract specialists.

8. Actions to Remove Barriers to Future Competition.

This is a one-time need to meet the requirement to transition trainers with Windows XP to an approved, current, and supportable Windows 10 OS. The Navy will pursue competitive acquisition strategies to the greatest extent possible should additional requirements arise beyond the scope of this document. Additionally, the Government will continually monitor the commercial marketplace via tradeshow and publications for other potential sources.